RAW SEQUENCE LISTING PATENT APPLICATION US/09/096,648

DATE: 06/23/98 TIME: 07:42:03

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1	SEQUENCE LISTING ENTERE
2	ENIFRE
3	(1) General Information:
4 5	(i) APPLICANT: Hadlaczky, Gyula Szalay, Aladar
6	Szalay, Aladai
7	(ii) TITLE OF INVENTION: ARTIFICIAL CHROMOSOMES, USES THEREOF AND
8 9	METHODS PREPARING ARTIFICIAL CHROMOSOMES
10	MEIHODS PREPARING ARTIFICIAL CHROMOSOMES
11	(iii) NUMBER OF SEQUENCES: 12
12	(III) NOMBER OF BEQUENCES: 12
13	(iv) CORRESPONDENCE ADDRESS:
14	(A) ADDRESSEE: Brown, Martin, Haller & McClain
15	(B) STREET: 1660 Union Street
16	(C) CITY: San Diego
17	(D) STATE: CA
18	(E) COUNTRY: USA
19	(F) ZIP: 92101-2926
20	(=, === =====
21	(V) COMPUTER READABLE FORM:
22	(A) MEDIUM TYPE: Diskette
23	(B) COMPUTER: IBM Compatible
24	(C) OPERATING SYSTEM: DOS
25	(D) SOFTWARE: FastSEQ Version 1.5
26	(-,
27	(vi) CURRENT APPLICATION DATA:
28	(A) APPLICATION NUMBER: US/09/096,648
29	(B) FILING DATE:
30	(C) CLASSIFICATION:
31	
32	(vii) PRIOR APPLICATION DATA:
33	(A) APPLICATION NUMBER: 08/629,822
34	(B) FILING DATE: 10-APR-1996
35	
36	(viii) ATTORNEY/AGENT INFORMATION:
37	(A) NAME: Seidman, Stephanie L
38	(B) REGISTRATION NUMBER: 33,779
39	(C) REFERENCE/DOCKET NUMBER: 6869-402A
40	
41	(ix) TELECOMMUNICATION INFORMATION:
42	(A) TELEPHONE: 619-238-0999
43	(B) TELEFAX: 619-238-0062
44	(C) TELEX:
45	
46	

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(2) INFORMATION FOR SEQ ID NO:1:
47
48
          (i) SEQUENCE CHARACTERISTICS:
49
             (A) LENGTH: 1293 base pairs
50
             (B) TYPE: nucleic acid
51
             (C) STRANDEDNESS: single
52
             (D) TOPOLOGY: linear
5.3
54
           (ii) MOLECULE TYPE: Genomic DNA
55
           (iii) HYPOTHETICAL: NO
56
           (iv) ANTI-SENSE: NO
57
           (V) FRAGMENT TYPE:
58
           (vi) ORIGINAL SOURCE:
59
           (ix) FEATURE:
60
61
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
62
63
     GAATTCATCA TTTTTCANGT CCTCAAGTGG ATGTTTCTCA TTTNCCATGA TTTTAAGTTT
64
     TCTCGCCATA TTCCTGGTCC TACAGTGTGC ATTTCTCCAT TTTNCACGTT TTNCAGTGAT
                                                                            120
65
     TTCGTCATTT TCAAGTCCTC AAGTGGATGT TTCTCATTTN CCATGAATTT CAGTTTTCTN
                                                                            180
66
     GCCATATTCC ACGTCCTACA GNGGACATTT CTAAATTTNC CACCTTTTTC AGTTTTCCTC
                                                                            240
67
     GCCATATTTC ACGTCCTAAA ATGTGTATTT CTCGTTTNCC GTGATTTTCA GTTTTCTCGC
                                                                            300
68
     CAGATTCCAG GTCCTATAAT GTGCATTTCT CATTTNNCAC GTTTTTCAGT GATTTCGTCA
                                                                            360
69
     TTTTTTCAAG TCGGCAAGTG GATGTTTCTC ATTTNCCATG ATTTNCAGTT TTCTTGNAAT
                                                                            420
70
     ATTCCATGTC CTACAATGAT CATTTTTAAT TTTCCACCTT TTCATTTTTC CACGCCATAT
                                                                            480
71
     TTCATGTCCT AAAGTGTATA TTTCTCCTTT TCCGCGATTT TCAGTTTTCT CGCCATATTC
                                                                            540
72
73
     CAGGTCCTAC AGTGTGCATT CCTCATTTTT CACCTTTTTC ACTGATTTCG TCATTTTTCA
                                                                            600
     AGTCGTCAAC TGGATCTTTC TAATTTTCCA TGATTTTCAG TTATCTTGTC ATATTCCATG
                                                                            660
74
     TCCTACAGTG GACATTTCTA AATTTTCCAA CTTTTTCAAT TTTTCTCGAC ATATTTGACG
                                                                            720
75
     TGCTAAAGTG TGTATTTCTT ATTTTCCGTG ATTTTCAGTT TTCTCGCCAT ATTCCAGGTC
                                                                            780
76
     CTAATAGTGT GCATTTCTCA TTTTTCACGT TTTTCAGTGA TTTCGTCATT TTTTCCAGTT
                                                                            840
77
     GTCAAGGGGA TGTTTCTCAT TTTCCATGAG TGTCAGTTTT CTTGCTATAT TCCATGTCCT
78
                                                                            900
     ACAGTGACAT TTCTAAATAT TATACCTTTT TCAGTTTTTC TCACCATATT TCACGTCCTA
79
                                                                            960
                                                                           1020
80
     AAGTATATAT TTCTCATTTT CCCTGATTTT CAGTTTCCTT GCCATATTCC AGGTCCTACA
     GTGTGCATTT CTCATTTTTC ACGTTTTTCA GTAATTTCTT CATTTTTTAA GCCCTCAAAT
                                                                           1080
81
     GGATGTTTCT CATTTTCCAT GATTTTCAGT TTTCTTGCCA TATACCATGT CCTACAGTGG
                                                                           1140
82
     ACATTTCTAA ATTATCCACC TTTTTCAGTT TTTCATCGGC ACATTTCACG TCCTAAAGTG
                                                                           1200
83
     TGTATTTCTA ATTTTCAGTG ATTTTCAGTT TTCTCGCCAT ATTCCAGGAC CTACAGTGTG
                                                                           1260
84
     CATTTCTCAT TTTTCACGTT TTTCAGTGAA TTC
                                                                           1293
85
86
               (2) INFORMATION FOR SEQ ID NO:2:
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88
            (i) SEQUENCE CHARACTERISTICS:
89
              (A) LENGTH: 1044 base pairs
90
91
              (B) TYPE: nucleic acid
92
              (C) STRANDEDNESS: single
93
             (D) TOPOLOGY: linear
94
           (ii) MOLECULE TYPE: Genomic DNA
           (iii) HYPOTHETICAL: NO
97
           (iv) ANTI-SENSE: NO
           (v) FRAGMENT TYPE:
98
99
           (vi) ORIGINAL SOURCE:
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					11	VI OI SEI. S200	47.1UW
100	(ix)	FEATURE:					
101							
102	(Xi)	SEQUENCE D	ESCRIPTION:	SEQ ID NO:	2:		
103							
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105						GATAGAGCAG	120
106						TGAGGATTTC	180
107						GAAGCTTCAT	240
108						CAGGTTTGAA	300
109	ACACTCTTTTT	TTCTTACTATC	TOCAROUTE	CAMMERCEAGE	CATCHIAGAG	CTGCGGTGAA	360
110						TTTTCATGAT	
111						AAACACTCTT	420
112							480
						GAAACGGGAT	540
113						TGCATTCAAG	600
114						TGATGTATCT	660
115						TTCCCCTGAA	720
116	AACTAGACAG	AAGCATTCTC	AGAAACTTAT	TTGTGATGTG	CGCCCTCAAC	TAACAGTGTT	780
117						GCAAGTGGAT	840
118						CAGACAGCAG	900
119						CATTCCCTTT	960
120	CAGAGAGCAG	GTTTGAACAC	TCTTTTTATA	GTATCTGGAT	GTGGACATTT	GGAGCGCTTT	1020
121	CAGGGGGGAT	CCTCTAGAAT	TCCT				1044
122							
123							
124							
125	(2) INFORMAT	ON FOR SEO	ID NO:3:			
126	·	,	-				
127	(i) S	SEOUENCE CHA	ARACTERISTIC	cs:			
128			92 base pai				
129		TYPE: nucl					
130		STRANDEDNE					
131		TOPOLOGY:					
132	(2)	101020011	TIMOUT				
133	(ii)	MOLECULE TV	PE: Genomic	- DNA			
134		HYPOTHETIC		. DNA			
135		ANTI-SENSE:					
136		RAGMENT TYP					
137		ORIGINAL SO				•	
138	. ,		ORCE:				
139	(IX)	FEATURE:					
	4 4 \	anolinian pr		~~~ ~~ ~~			
140	(XI)	SECORNCE DE	SCRIPTION:	SEO ID NO:3	:		
141							
142	CTGCAGCTGG						60
143	TAGGGGAAGG						120
144	GGATCTATGG						180
145	GAGGGTCTGA		GCTGGCCATG				240
146			A CITICAL A CITICAL	ams adds ads	TACCAACCAC	CCCTTCCCCT	300
	AATGGGACAG						300
147	AATGGGACAG TGCTATCCTG	GGGTTCAACC	CCCCAGGTTG	AAGGCCCTGG	GGGAGATGGT	CCCAGGACAT	360
147 148	AATGGGACAG TGCTATCCTG ATTACAATGG	GGGTTCAACC ACACAGGAGG	CCCCAGGTTG TTGGGACACC	AAGGCCCTGG TGGAGTCACC	GGGAGATGGT AAACAAAACC	CCCAGGACAT ATGCCAAGAG	
147	AATGGGACAG TGCTATCCTG ATTACAATGG AGACCATGAG	GGGTTCAACC ACACAGGAGG TAGGGGTGTC	CCCCAGGTTG TTGGGACACC CAGTCCAGCC	AAGGCCCTGG TGGAGTCACC CTCTGACTGA	GGGAGATGGT AAACAAAACC GCTGCATTGT	CCCAGGACAT ATGCCAAGAG TCAAATCCAA	360
147 148	AATGGGACAG TGCTATCCTG ATTACAATGG	GGGTTCAACC ACACAGGAGG TAGGGGTGTC	CCCCAGGTTG TTGGGACACC CAGTCCAGCC	AAGGCCCTGG TGGAGTCACC CTCTGACTGA	GGGAGATGGT AAACAAAACC GCTGCATTGT	CCCAGGACAT ATGCCAAGAG TCAAATCCAA	360 420
147 148 149	AATGGGACAG TGCTATCCTG ATTACAATGG AGACCATGAG AGGGCCCCTG	GGGTTCAACC ACACAGGAGG TAGGGGTGTC CTGCCACCTA	CCCCAGGTTG TTGGGACACC CAGTCCAGCC GTGGCTGATG	AAGGCCCTGG TGGAGTCACC CTCTGACTGA GCATCCACAT	GGGAGATGGT AAACAAAACC GCTGCATTGT GACCCTGGGC	CCCAGGACAT ATGCCAAGAG TCAAATCCAA CACACGCGTT	360 420 480 540
147 148 149 150	AATGGGACAG TGCTATCCTG ATTACAATGG AGACCATGAG	GGGTTCAACC ACACAGGAGG TAGGGGTGTC CTGCCACCTA GTGAAGACCA	CCCCAGGTTG TTGGGACACC CAGTCCAGCC GTGGCTGATG AGATCCTTGT	AAGGCCCTGG TGGAGTCACC CTCTGACTGA GCATCCACAT TACATTGAAC	GGGAGATGGT AAACAAAACC GCTGCATTGT GACCCTGGGC GACTCCTAAA	CCCAGGACAT ATGCCAAGAG TCAAATCCAA CACACGCGTT TGAGCAGAGA	360 420 480

205

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					II	VFU1 3E1: 3200	14/./UW
153	CTAAGGCTAG	GGATAGGGTG	GGATGAAGAT	TATAGTTACA	GTAAGGGGTT	TAGGGTTAGG	720
154						GGGGTTAGGG	780
155				GTTAGGGTTA			840
156				CTTATACGCT			900
157	AGAGTTCTTG	TTTTTCCTTC	AGCAATTTGT	CATTTTTAAA	AGAGTTTAGC	AATTCTAACA	960
158	GATATAGACC	AGCTGTGCTA	TCTCATTGTG	GTTTTCAATT	GTAACCACAT	TGTGGTTTCA	1020
159						GATGTGTGTG	1080
160				TGTTTAGTTT			1140
161	GAAGACAAAT	CTTTCTCAGA	TGTGTATTTG	CAAATATTTC	TTCAATATGA	GGCTTGCTTT	1200
162	TGTCTCTAAC	AAGGTCTCTT	CAGAGATAAC	TTAAATATAA	GAAATCCACA	CTGTCACTTC	1260
163	TTTTGTGTAT	ATCTACCTTT	TGTGTCATTT	GTTAAAATTC	ATTACCAAAC	CCAAAGGCAG	1320
164	ATAGCTTTTC	TTCTATTGTT	TCTTCTAGAA	ATTTGTATAG	TTTTGCATTT	TTAGTGTAAG	1380
165	GATGATTTTG	AGTGATTATT	TGTGTAAGTT	GTAAAGTTTT	CGTCTATATC	CATATCATTT	1440
166	CTTATGGTTT	CCAATTAATC	GTTCCCTCAC	TATTTTTGGG	AAAGACACAG	GATAGTGGGC	1500
167	TTTGTTAGAG	TAGATAGGTA	GCTAGACATG	AACAGGAGGG	GGCCTCCTGG	AAAAGGGAAA	1560
168	GTCTGGGAAG	GCTCACCTGG	AGGACCACCA	AAAATTCACA	TATTAGTAGC	ATCTCTAGTG	1620
169	CTGGAGTGGA	TGGGCACTTG	TCAATTGTGG	GTAGGAGGGA	AAAGAGGTCC	TATGCAGAAA	1680
170	GAAACTCCCT	AGAACTCCTC	TGAAGATGCC	CCAATCATTC	ACTCTGCAAT	AAAAATGTCA	1740
171	GAATATTGCT	AGCTACATGC	TGATAAGGNN	AAAGGGGACA	TTCTTAAGTG	AAACCTGGCA	1800
172	CCATAAGTAC.	AGATTAGGGC	AGAGAAGGAC	ATTCAAAAGA	GGCAGGCGCA	GTAGGTACAA	1860
173	ACGTGATCGC	TGTCAGTGTG	CCTGGGATGG	CGGGAAGGAG	GCTGGTGCCA	GAGTGGATTC	1920
174	GTATTGATCA	CCACACATAT	ACCTCAACCA	ACAGTGAGGA	GGTCCCACAA	GCCTAAGTGG	1980
175	GGCAAGTTGG	GGAGCTAAGG	CAGTAGCAGG	AAAACCAGAC	AAAGAAAACA	GGTGGAGACT	2040
176	TGAGACAGAG	GCAGGAATGT	GAAGAAATCC	AAAATAAAAT	TCCCTGCACA	GGACTCTTAG	2100
177	GCTGTTTAAT	GCATCGCTCA	GTCCCACTCC	TCCCTATTTT	TCTACAATAA	ACTCTTTACA	2160
178	CTGTGTTTCT	TTTCAATGAA	GTTATCTGCC	ATCTTTGTAT	TGCCTCTTGG	TGAAAATGTT	2220
179	TCTTCCAAGT	TAAACAAGAA	CTGGGACATC	AGCTCTCCCC	AGTAATAGCT	CCGTTTCAGT	2280
180	TTGAATTTAC	AGAACTGATG	GGCTTAATAA	CTGGCGCTCT	GACTTTAGTG	GTGCAGGAGG	2340
181	CCGTCACACC	GGGACCAAGA	GTGCCCTGCC	TAGTCCCCAT	CTGCCCGCAG	GTGGCGGCTG	2400
182	CCTCGACACT	GACAGCAATA	GGGTCCGGCA	GTGTCCCCAG	CTGCCAGCAG	GGGGCGTACG	2460
183	ACGACTACAC	TGTGAGCAAG	AGGGCCCTGC	AG			2492
184							
185	(2	2) INFORMATI	ON FOR SEQ	ID NO:4:			
186							
187	(i) S	SEQUENCE CHA	ARACTERISTIC	cs:			
188	(A)	LENGTH: 28	B base pairs	3		•	
189	(B)	TYPE: nucl	leic acid				
190	(C)	STRANDEDNE	ESS: single				
191	(D)	TOPOLOGY:	linear				
192							
193	(ii)	MOLECULE TY	PE: Genomia	DNA			
194	(iii)	HYPOTHETIC	CAL: NO				
195		ANTI-SENSE:					
196	(V) E	RAGMENT TYP	PE:				
197	(Vi)	ORIGINAL SO	OURCE:				
198	(ix)	FEATURE:					
199							
200	(xi)	SEQUENCE DE	ESCRIPTION:	SEQ ID NO:4	ł:		
201							
202	GGGGAATTCA	TTGGGATGTT	TCAGTTGA				28
203							
204	(2	2) INFORMATI	ON FOR SEQ	ID NO:5:			

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DATE: 06/23/98 TIME: 07:42:10

		INFUI SEI: 320047.74W
206	(i) SEQUENCE CHARACTERISTICS:	
207	(A) LENGTH: 29 base pairs	
208	(B) TYPE: nucleic acid	
209	(C) STRANDEDNESS: single	
210	(D) TOPOLOGY: linear	
211		
212	(ii) MOLECULE TYPE: Genomic DNA	
213	(iii) HYPOTHETICAL: NO	
214	(iv) ANTI-SENSE: NO	
215	(V) FRAGMENT TYPE:	
216	(vi) ORIGINAL SOURCE:	
217	(ix) FEATURE:	
218		
219	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
220	(,	
221	CGAAAGTCCC CCCTAGGAGA TCTTAAGGA	29
222		
223	(2) INFORMATION FOR SEQ ID NO:6:	
224	(2) 1110444111011 1011 0112 10 110101	
225	(i) SEQUENCE CHARACTERISTICS:	
226	(A) LENGTH: 47 base pairs	
227	(B) TYPE: nucleic acid	
228	(C) STRANDEDNESS: single	
229	(D) TOPOLOGY: linear	
230	(b) Torollogi. linear	
230	(ii) MOLECULE TYPE: RNA	
231	(iii) HYPOTHETICAL: NO	
232	(iv) ANTI-SENSE: NO	
234	(V) FRAGMENT TYPE:	
235	(vi) ORIGINAL SOURCE:	
236	(ix) FEATURE:	
237	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
238	(XI) SEQUENCE DESCRIPTION: SEQ ID NO. 0.	
239	CCGCTTAATA CTCTGATGAG TCCGTGAGGA CGAAACGCTC TCGCACC	47
240	CUGUTTAATA CICIGAIGAG ICCGIGAGGA CGAAACGCIC ICGCACC	
241		
242		
243	(A) THEODYNITON FOR CEA ID NO. 7.	
244	(2) INFORMATION FOR SEQ ID NO:7:	
245	(CECUENCE CUADACHEDICHIC.	
246	(i) SEQUENCE CHARACTERISTICS:	
247	(A) LENGTH: 25 base pairs	
248	(B) TYPE: nucleic acid	
249	(C) STRANDEDNESS: single	
250	(D) TOPOLOGY: linear	
251	ALL MANDOUT D. MUDDL. Gamenia DVI	
252	(ii) MOLECULE TYPE: Genomic DNA	
253	(iii) HYPOTHETICAL: NO	
254	(iv) ANTI-SENSE: NO	
255	(V) FRAGMENT TYPE:	
256	(vi) ORIGINAL SOURCE:	
257	(ix) FEATURE:	
258		

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/09/096,648*

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